

[54] **METHOD FOR THE MANUFACTURE OF OPTICAL MOLD FOR REPRODUCING CURVED SURFACES HAVING THE SAME SHAPE AS AN OPTICAL PROTOTYPE**

[75] Inventors: Tsutomu Tojyo; Shozo Sato, both of Hachiouji, Japan

[73] Assignee: Olympus Optical Co., Ltd., Tokyo, Japan

[21] Appl. No.: 804,242

[22] Filed: Jun. 7, 1977

[30] **Foreign Application Priority Data**

Jun. 14, 1976 [JP] Japan ..... 51-69593  
Jun. 14, 1976 [JP] Japan ..... 51-69594

[51] Int. Cl.<sup>2</sup> ..... B32B 17/00; B32B 7/12; B32B 15/00

[52] U.S. Cl. .... 156/629; 156/155; 156/232; 156/233; 156/236; 156/249; 156/630; 156/656; 249/135; 264/1; 264/220; 425/808

[58] Field of Search ..... 196/629, 630, 656, 232, 196/233, 236, 241, 249, 155; 264/1, 220, 221; 249/116, 135; 429/808

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

2,164,010	6/1939	Grupe .....	156/155 X
2,734,243	2/1956	Lips et al. ....	264/220 UX
2,765,248	10/1956	Beech et al. ....	156/232
2,851,331	9/1958	Miller .....	249/116
2,879,196	3/1959	Brucker .....	156/155
3,428,533	2/1969	Pichel .....	264/1 UX
4,061,518	12/1977	Burroughs et al. ....	264/1 X

*Primary Examiner*—William A. Powell

*Assistant Examiner*—Thomas Bokan

*Attorney, Agent, or Firm*—Cushman, Darby & Cushman

[57] **ABSTRACT**

A sturdy optical mold for reproducing optical curved surfaces in the shape corresponding to that of an optical prototype comprising a resin layer formed on a base and a metallic layer formed on said resin layer, and a method for manufacturing an optical mold for reproducing optical curved surfaces in the shape corresponding to that of an optical prototype comprising forming layers of different metals on the surface of an optical prototype, dissolving one of said layers for releasing the other layer and fixing said released layer onto a base with a bonding agent.

**4 Claims, 15 Drawing Figures**